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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,633	06/16/2005	Hidetoshi Nishino	L9289.05137	4694
24257 7590 02/08/2008 STEVENS DAVIS MILLER & MOSHER, LLP 1615 L STREET, NW			EXAMINER	
			PEACHES, RANDY	
			ART UNIT	PAPER NUMBER
			2617	
00				
			MAIL DATE	DELIVERY MODE
			02/08/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	10/539,633	NISHINO, HIDETOSHI	
Office Action Summary	Examiner	Art Unit	
	Randy Peaches	2617	
The MAILING DATE of this communication aperiod for Reply	ppears on the cover sheet w	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory perior. Failure to reply within the set or extended period for reply will, by statution Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a d will apply and will expire SIX (6) MO ute, cause the application to become A	ICATION. reply be timely filed  NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
tatus			
1) Responsive to communication(s) filed on 16	June 2005.		
2a) This action is <b>FINAL</b> . 2b) ⊠ This action is non-final.			
3) Since this application is in condition for allow			
closed in accordance with the practice under	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-7 is/are pending in the application 4a) Of the above claim(s) is/are withdr 5) Claim(s) is/are allowed. 6) Claim(s) 1-3.6 and 7 is/are rejected. 7) Claim(s) 4 and 5 is/are objected to. 8) Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9) The specification is objected to by the Examination 10) The drawing(s) filed on is/are: a) and applicant may not request that any objection to the Replacement drawing sheet(s) including the correction.  11) The oath or declaration is objected to by the second seco	ccepted or b) objected to ne drawing(s) be held in abeya ection is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received.  ents have been received in a riority documents have bee eau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)		r Summary (PTO-413) o(s)/Mail Date	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date \$6-16-05.		Informal Patent Application	

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. Claims 1-3 and 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshida (U.S. Patent Publication Number 2004/0091057 in view of Miya (U.S. Patent Number 6,959,070 B2).

Regarding *claims 1 and 6-7*, Yoshida discloses a receiving apparatus, which reads on claimed "synchronization processing apparatus," comprising:

- a delay profile management unit (601a), which reads on claim "delay profile generator," that creates a delay profile of a communicating party from a received signal. See paragraph [0188];
- a GI exceed delayed wave detector, which reads on claim "communication stop period determiner," that determines a guard time (GI), which reads on claim "temporary communication stop," period from a parameter that indicates said communication stop period to the communicating party. See paragraph [0188];
- a ISI replica generator, which reads on claim "timing controller" that sets a delay profile creation timing for the communicating party such that the said GI of the

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communicating party determined by the said GI – exceed delayed wave detector and a delay profile creation period for the communicating party in the delay profile generator do not overlap. See paragraph [0008]; and

However, Yoshida fails to clearly render sufficient support as to a path searcher that detects a receiving timing where the delay profile has a peak.

Miya discloses in column 4 lines 27-54 wherein a path searcher that detects a receiving timing where the delay profile has a peak.

Therefore, at the time of the invention it would have been obvious to a person of ordinary skilled in the art to modify the teachings of Yoshida to include Miya in order to provide a means to obtain the dispreading timing.

Regarding *claim 2*, as the combination of Yoshida and Miya are made, the combination according to *claim 1*, the combination discloses wherein the delay profile management unit (601a), divides time every plurality of channels and creates delay profiles. See Miya, column 4 line 54; and

the timing controller sets delay profile creation timings on a per channel basis.
 See Miya, column 4 lines 49-55 and column 5 lines 5-8.

Regarding *claim 3*, as the combination of Yoshida and Miya are made, the combination according to *claim 1*, the combination discloses the delay profile generator divides time every plurality of sectors and creates delay profiles. See column 3 lines 45-51; and

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the timing controller sets delay profile creation timings on a per sector basis. See
 column 9 lines 4-9

# Allowable Subject Matter

2. Claims 4 and 5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Randy Peaches whose telephone number is (571) 272-7914. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Randy Peaches RP

CHARLES N. APPIAH
SUPERVISORY PATENT EXAMINER